

**SONI & CO**  
NOTARY PUBLIC

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TO ALL TO WHOM THESE PRESENTS SHALL COME

I, PRITESH VALLABHDAS SONI of 23 Ansdell Street, London W8 5BN, in the City of London, NOTARY PUBLIC, by royal authority duly authorised, admitted and sworn, DO HEREBY CERTIFY AND ATTEST that I have no reason to doubt the genuineness of the signature of ANTHONY EDWARD GEORGE CASS subscribed to the foregoing document, such document having been subscribed by the said ANTHONY EDWARD GEORGE CASS.

IN FAITH AND TESTIMONY whereof I the said Notary have subscribed my hand and affixed my seal of Office in Kensington, London, as aforesaid, this 23<sup>rd</sup> day of May, 2003.

Mr Pritesh Soni

Notary Public



IN THE MATTER OF US application 09/673538 in the name of DURRANT James, CASS Anthony, GILARDI Gianfranco

**AFFIDAVIT OF ANTHONY EDWARD GEORGE CASS**

I, Anthony Edward George Cass of 39 Novello Street, London SW6 4JB, make oath and say as follows:

1. I am Professor of Chemical Biology at Imperial College London. I have been employed by the College since May 1983 and have held the position of Professor since October 2001. Save where otherwise stated, the facts set out herein are within my own knowledge and I believe them to be true. Where matters are not within my own knowledge, they have been derived as stated herein and I believe them to be true.

In WO 96/00198 the immobilisation of proteins in a sol-gel matrix is described and as part of this process the sol-gel material containing protein is heated at 80 degrees Celsius. A search of the ProTherm database (<http://www rtc.riken.go.jp/jouhou/Protherm/protherm.html>) reveals that only approximately 8% of the proteins in that database have denaturation temperatures above 80 degrees Celsius. This implies that 92% of proteins would lose their function when immobilised according to the method described in WO 96/00198. In contrast the method described in US application 09/673538 does not require that the proteins attached to the metal oxide films are heated above room temperature (25 degrees Celsius) and so is suited to the immobilisation of many more proteins.

SWORN THIS TWENTY THIRD DAY OF MAY 2003

*A. Cass*

At Imperial College London SW7 2AZ, U.K.

Before me

*M. M. Soni*  
Solicitor

PRITESH SONI, Notary Public

MY COMMISSION  
EXPIRES ON DEATH

